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Document Number 1

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File:DERWENT

July 27, 1999

DERWENT-ACC-NO: 1998-589794

DERWENT-WEEK: 199902

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TITLE:

Film with improved adhesion used for magnetic recording medium - based on aromatic polyamide(s) and polyimide(s)

PATENT-ASSIGNEE: TORAY IND INC[TORA]

PRIORITY-DATA: 1997JP-0071991 (March 25, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10265589 A	October 6, 1998	N/A	013	C08J 005/18

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP10265589A	N/A	1997JP-0071991	March 25, 1997

IPC: B29C055/12; B29K007:00 ; B29K077:00 ; B29K079:00 ; B32B027/34 ; C08J005/18 ; C08K007/00 ; C08L067/03 ; C08L079/08 ; G11B005/66

ABSTRACTED-PUB-NO:JP10265589A

BASIC-ABSTRACT:A film is based on one or more of aromatic polyamides and polyimides and has, at least on one side, protrusions consisting of (1) fine protrusions having a height from the flat plane of the film of at least 20 nm and a max. dia. of at least 10 nm at a rate of 1 multiplied by 10 to the part of 2 to 1 multiplied by 10 to the part of 8 protrusions/mm2 and (2) ultra-fine protrusions having a height of smaller than 10 nm and a max. dia. of at least 2 nm at a rate of 5 multiplied by 10 to the part of 8 protrusions/mm2. Pref. the protrusions (1) have a max. dia. of up to 2000 nm. Pref. the protrusions (2) have a height of 0.01-5 nm. Pref. the protrusions (1) are formed with particles contained in the film, and protrusions (2) are formed without particles. Pref. the film has a Young modulus of at least 6.9 GPa at least in one direction and coarse protrusions of a height of 546 nm or larger at a rate of up to 100 protrusions/cm2. Pref. the three-dimensional surface roughness, S_{Ra1}, measured in the 0.02 mm² area of the side having the protrusions, and the three-dimensional surface roughness, S_{Ra2}, measured in the 1 mm² area of the side having the protrusions, meet the condition: S_{Ra2}/S_{Ra1} = 0.8-4.5. Also claimed is a magnetic recording medium having a magnetic layer at least on one side of the film. Pref. the layer is a metal thin-film type magnetic layer. Pref. the medium has a nonmagnetic thin-film layer between the magnetic layer and the substrate film. ADVANTAGE - The film has high heat resistance, good mechanical characteristics and good surface properties. It is widely

available in magnetic cards, tape s and disks, optical recording media and capacitors and as a coating material, i nsulator for high-rotating-speed electric machinery, plate-making material, phot ographic film and substrate for solar cells.

CHOSEN-DRAWING:Dwg.0/0

TITLE-TERMS:

FILM IMPROVE ADHESIVE MAGNETIC RECORD MEDIUM BASED AROMATIC POLYAMIDE
POLYIMIDE

DERWENT-CLASS: A23 A26 A85 L03 P73 T03

CPI-CODES: A05-F01E2; A05-J01B; A12-E08A; L03-B05L1;

EPI-CODES: T03-A01F;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; D18*R ; P0635*R F70 D01 ; H0293 ; S9999 S1285*R ; S9999 S1581

Polymer Index [1.2]

018 ; P1081*R F72 D01 ; P0077 ; S9999 S1581 ; H0293 ; S9999 S1285*R

Polymer Index [1.3]

018 ; ND01 ; ND09 ; K9745*R ; B9999 B5301 B5298 B5276 ; K9449 ;
B9999 B5378 B5276 ; B9999 B4080 B3930 B3838 B3747 ; Q9999 Q8877*R
Q8855 ; B9999 B4682 B4568 ; B9999 B3747*R ; Q9999 Q7114*R ; Q9999
Q7374*R Q7330 ; Q9999 Q8888 Q8877 Q8855 ; Q9999 Q8899*R Q8877 Q8855
; Q9999 Q8924*R Q8855 ; Q9999 Q7363 Q7330 ; Q9999 Q8662 Q8606 ;
Q9999 Q8979 Q8968 ; K9745*R

Polymer Index [1.4]

018 ; A999 A237 ; S9999 S1456*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers:C1998-176993

Non-CPI Secondary Accession Numbers:N1998-459911

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